Date: Thursday, 01/05/2008 9:45:52 AM
User: Julie Lecocq

Process Sheet

Customer	: CU-DAR001 Dart Helicopters Services	**Drawing Name**	: SADDLE FITTING, FWD (OUTBOARD/INBOARD)
Job Number	: 38920		
Estimate Number	: 10530		
P.O. Number	:	**Part Number**	: D2571
This Issue	: 01/05/2008 **S.O. No.** :	**Drawing Number**	: D2571 REV E
Prsht Rev.	: NC	**Project Number**	: N/A
First Issue	: / / **Type** : MACHINED PARTS	**Drawing Revision**	: E
Previous Run	: 38653	**Material**	:
Written By	:	**Due Date**	: 10/05/2008 **Qty:** 8 **Um:** Each
Checked & Approved By	: JLD 08.5.01		
Comment	: Est: I 02.10.02 Re-format; Change to Dwg Rev. D & incorporated D2572KJ		

Additional Product

Job Number:

Seq. #:	Machine Or Operation:	Description :
1.0	D6101007	Saddle Billet

Comment: Qty.: 1.0000 Each(s)/Unit Total : 8.0000 Each(s)
7075-T7351 8.25X7.75X2.5
Make from D6101-007 billet for D2571
Ensure that grain is along 7.75" length
Batch No: B34875

SP 08/05/09

2.0	HAAS1	HAAS CNC VERTICAL MACHINING #1

PHD

Comment: HAAS CNC VERTICAL MACHINING #1
Program Batch No. SP Double check by: J.L

1-Machine Step No 1 per Folio FA051 and inspect per attached Dimension Sheets
2-Machine Step No 2 per Folio FA051 and inspect per attached Dimension Sheets
3-Machine Step No 3 per Folio FA051 and inspect per attached Dimension Sheets
4-Deburr and remove all machining marks
5-Tumble to remove sharp edges.

SP 08/05/09

3.0	MILLING CONV.	CONVENTIONAL MILLING MACHINE

Comment: CONVENTIONAL MILLING MACHINE
Machine keyway as per dwg D2571 & D2572

SP 08/05/13

4.0	QC2	INSPECT PARTS AS THEY COME OFF MACHINE

Comment: INSPECT PARTS AS THEY COME OFF MACHINE

SP 08/05/13

Dart Aerospace Ltd

W/O:		WORK ORDER CHANGES					
DATE	**STEP**	**PROCEDURE CHANGE**	**By**	**Date**	**Qty**	**Approval** Chief Eng / Prod Mgr	**Approval** QC Inspector

Part No: P2571 **PAR #:** N/A **Fault Category:** Prod/Machined Parts **NCR:** (Yes) No **DQA:** D **Date:** 08/05/22

QA: N/C Closed: D **Date:** 08/05/22

NCR: 38920		WORK ORDER NON-CONFORMANCE (NCR)							
DATE	**STEP**	**Description of NC** Section A	**Corrective Action** Section B			**Verification** Section C	**Approval** Chief Eng	**Approval** QC Inspector
			Initial Chief Eng	**Action Description** Chief Eng	**Sign & Date**			
8/5/12	# 23	During 3rd operation the SADDLE pulled up and caused the SADDLE to twist. appropriately offset 0.100" ± on the Bore of the stud tube.	08/05/13	Adjust speed ± to compensate for the 1" sgs Endmill Scrap and Destroy and Replace Qty (x1) PA# B34875 Install note in f.o.to for what speed sgs endmills are to be Banned at. 08/05/13	08/05/22	J.L 08/05/22	08/05/13	08/05/13
		R.C no slow of a speed for a agressive endmill					08/05/13	08/05/13

NOTE: Date & initial all entries

Date: Thursday, 01/05/2008 9:45:52 AM
User: Julie Lecocq

Process Sheet

Customer: CU-DAR001 Dart Helicopters Services **Drawing Name:** SADDLE FITTING, FWD (OUTBOARD/INBOARD)

Job Number: 38920 **Part Number:** D2571

Job Number:

Seq. #:	Machine Or Operation:	Description :
5.0	QC8	SECOND CHECK
	Comment: SECOND CHECK	JL 08/05/14
6.0	HAND FINISHING1	HAND FINISHING RESOURCE #1
	Comment: HAND FINISHING RESOURCE #1 Acid etch and Alodine as per QSI 005 4.1	8 08-05-20
7.0	POWDER COATING	POWDER COATING
	Comment: POWDER COATING Powder Coat White Gloss (Ref: 4.3.5.1) as per QSI 005 4.3 START TIME: 11:15 OVEN TEMPERATURE: 220°F FINISH TIME: 11:45	M 107925 8 08/05/20
8.0	QC3	INSPECT POWDER COAT/CHEMICAL CONVERSION
	Comment: INSPECT POWDER COAT	8 08/05/20
9.0	PACKAGING 1	PACKAGING RESOURCE #1
	Comment: PACKAGING RESOURCE #1 Identify and Stock Location: 5432	8/8/21 (8)
10.0	QC21	FINAL INSPECTION/W/O RELEASE
	Comment: FINAL INSPECTION/W/O RELEASE	08/05/22 MF 08-05-22

Job Completion

Form: rprocess

Dart Aerospace Ltd

W/O:		WORK ORDER CHANGES					
DATE	**STEP**	**PROCEDURE CHANGE**	**By**	**Date**	**Qty**	**Approval** Chief Eng / Prod Mgr	**Approval** QC Inspector

Part No: _____ **PAR #:** _____ **Fault Category:** _____ **NCR:** Yes No **DQA:** _____ **Date:** _____

QA: N/C Closed: _____ **Date:** _____

NCR:		WORK ORDER NON-CONFORMANCE (NCR)						
DATE	**STEP**	**Description of NC** Section A	**Corrective Action** Section B			**Verification** Section C	**Approval** Chief Eng	**Approval** QC Inspector
			Initial Chief Eng	**Action Description** Chief Eng	**Sign & Date**			

NOTE: Date & initial all entries

DART AEROSPACE LTD	Work Order:	38920
Description: Saddle, Fwd Outboard	Part Number:	D2571
Inspection Dwg: D2571 Rev. E		Page 1 of 1

Inspect dimensions highlighted on inspection sheet drawing D2571 Rev. E and record below:

				Recorded Actual Dimensions					
Dim	**Min**	**Max**	**Go/No Go Gauge**	**1**	**2**	**3**	**4**	**By**	**Date**
A	0.438	0.443		0.443	0.443	.441	.441		
B	1.745	1.755		1.749	1.750	1.750	1.750		
C	3.495	3.505		3.499	3.500	3.500	3.500		
D	1.745	1.755		1.750	1.750	1.750	1.750		
E	7.990	8.010		8.001	8.002	8.002	8.002		
F	0.490	0.510		0.504	0.505	.500	.501		
G	0.257	0.262		0.259	0.259	0.259	0.259		
H	0.375	0.380		0.378	0.378	0.378	0.378		
I	0.490	0.510		0.503	0.508	0.505	0.503		
J	1.174	1.184		1.179	1.179	1.179	1.178		
K	0.558	0.578		0.570	0.573	0.575	0.572		
L	1.174	1.184		1.179	1.179	1.180	1.180		
M	1.490	1.500		1.495	1.495	1.495	1.494		
N	2.495	2.505		2.500	2.500	2.500	2.499		
O	3.869	3.879		3.874	3.874	3.874	3.874		
P	0.115	0.135		0.123	0.123	0.124	0.124		
Q	0.115	0.135		0.135	0.135	0.135	0.135		
R	0.240	0.260		0.248	0.248	0.248	0.249		
S	0.115	0.135		0.123	0.121	0.121	0.122		
T	0.178	0.198		0.188	0.188	0.188	0.188		
U	2.940	2.980		2.960	2.960	2.960	2.958		
V	0.230	0.250		0.232	0.231	0.232	0.232		
W	0.115	0.135		0.118	0.122	0.119	0.119		
X	0.308	0.313		.310	.310	.310	.310		
Y	0.760	0.765		.760	.760	.760	.760		
Z	0.352	0.372		0.365	0.366	.366	.367		
AA	0.470	0.530		0.500	0.500	0.500	0.500		
AB	0.615	0.635		0.627	0.629	0.626	625		
AC	0.053	0.073		0.0625	0.0625	0.0625	.062		
AD	0.240	0.260		0.243	0.243	0.243	0.243		
AE	1.375	1.395		1.3880	1.3905	1.3905	1.3895		
AF	0.115	0.135		0.135	0.135	0.135	0.135		
AG	0.240	0.280		0.260	0.260	0.260	0.260		
AH	0.240	0.260		0.242	0.247	0.2425	0.242		
AI	2.000	2.020		2.0035	2.008	2.004	02.004		
AJ	0.023	0.043		.033	.033	.033	.033		
Accept/Reject									

Measured by:	DJP
Date:	08/05/10

Audited by	JL
Date:	08/05/10

Rev	Date	Change	Revised by	Approved
A		New Issue	RF	
B	02.09.24	Re-format; Added Rev. D	KJ	
C	02.10.11	Re-format; Added DT8682, DT8683, DT8684	KJ	
D	05.05.05	Added dimension AI	KJ/RF	
E	05.12.05	Added dimension AJ	KJ/JLM	

DART AEROSPACE LTD	Work Order:	38920
Description: Saddle, Fwd Outboard	Part Number:	D2571
Inspection Dwg: D2571 Rev. E		Page 1 of 1

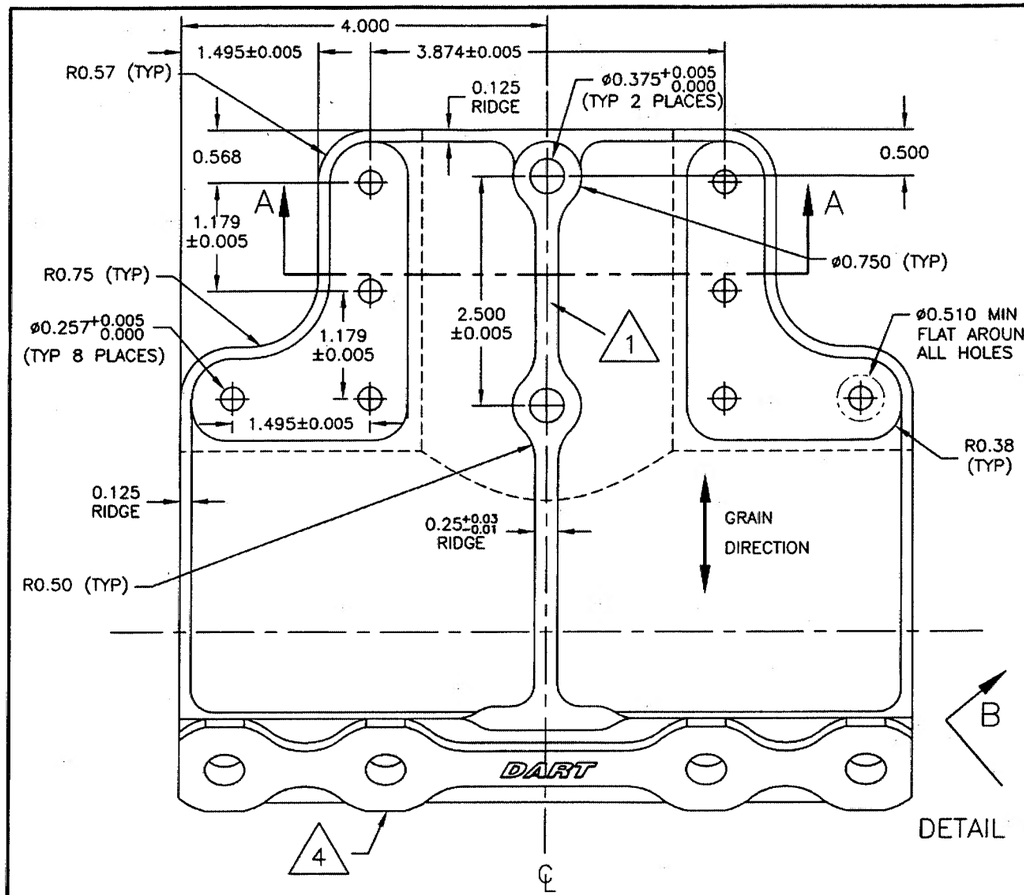
Inspect dimensions highlighted on inspection sheet drawing D2571 Rev. E and record below:

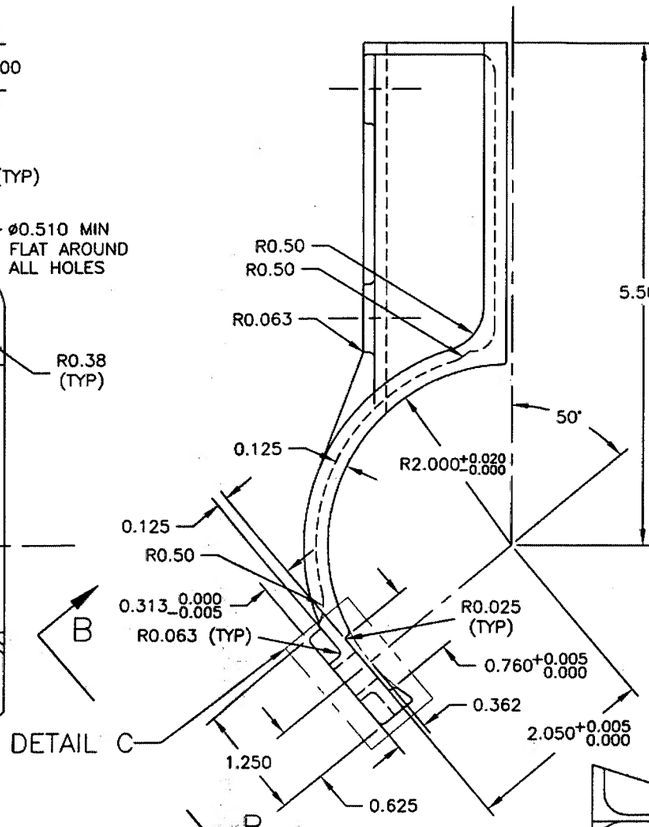
				Recorded Actual Dimensions					
Dim	Min	Max	Go/No Go Gauge	5	6	7	8	By	Date
A	0.438	0.443		.441	.441	.441	.441		
B	1.745	1.755		1.750	1.750	1.750	1.750		
C	3.495	3.505		3.500	3.500	3.500	3.500		
D	1.745	1.755		1.750	1.7500	1.750	1.750		
E	7.990	8.010		8.000	8.000	8.002	8.001		
F	0.490	0.510		.505	.502	.505	.505		
G	0.257	0.262		0.259	0.259	.258	.259		
H	0.375	0.380		0.378	0.378	.376	.377		
I	0.490	0.510		.505	.505	.500	.500		
J	1.174	1.184		1.179	1.177	1.177	1.179		
K	0.558	0.578		.568	.568	.568	.570		
L	1.174	1.184		1.178	1.178	1.179	1.179		
M	1.490	1.500		1.496	1.495	1.495	1.495		
N	2.495	2.505		2.499	2.499	2.500	2.500		
O	3.869	3.879		3.877	3.874	3.874	3.874		
P	0.115	0.135		0.123	0.12	.122	.122		
Q	0.115	0.135		0.135	0.135	.135	.135		
R	0.240	0.260		0.248	0.248	.248	.248		
S	0.115	0.135		.125	.125	.125	.122		
T	0.178	0.198		0.188	0.188	.184	.188		
U	2.940	2.980		2.958	2.960	2.960	2.960		
V	0.230	0.250		.233	.240	.236	.237		
W	0.115	0.135		.120	.120	.120	.121		
X	0.308	0.313		.310	.310	.310	.310		
Y	0.760	0.765		.760	.760	.760	.760		
Z	0.352	0.372		.362	.365	.367	.361		
AA	0.470	0.530		0.500	0.500	.500	.500		
AB	0.615	0.635		.625	.625	.625	.620		
AC	0.053	0.073		.063	.063	.063	.063		
AD	0.240	0.260		.250	.250	.250	.250		
AE	1.375	1.395		1.385	1.381	1.381	1.389		
AF	0.115	0.135		.125	.125	.125	.125		
AG	0.240	0.280		0.260	0.260	.260	.260		
AH	0.240	0.260		.250	.250	.245	.248		
AI	2.000	2.020		2.002	2.002	2.000	2.002		
AJ	0.023	0.043		.033	.033	.033	.		
Accept/Reject									

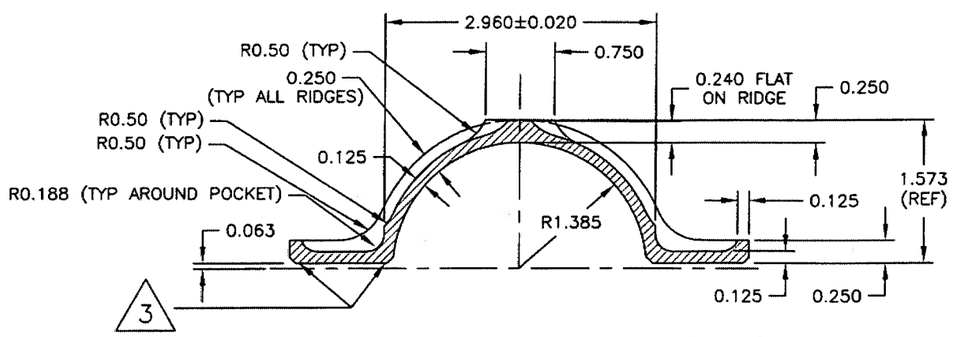
Measured by:	DJP
Date:	08/05/11

Audited by	J.L
Date:	08/05/14

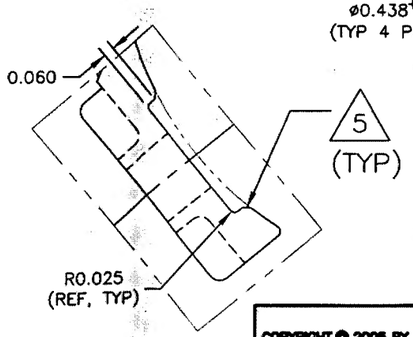
Rev	Date	Change	Revised by	Approved
A		New Issue	RF	
B	02.09.24	Re-format; Added Rev. D	KJ	
C	02.10.11	Re-format; Added DT8682, DT8683, DT8684	KJ	
D	05.05.05	Added dimension AI	KJ/RF	
E	05.12.05	Added dimension AJ	KJ/JLM	



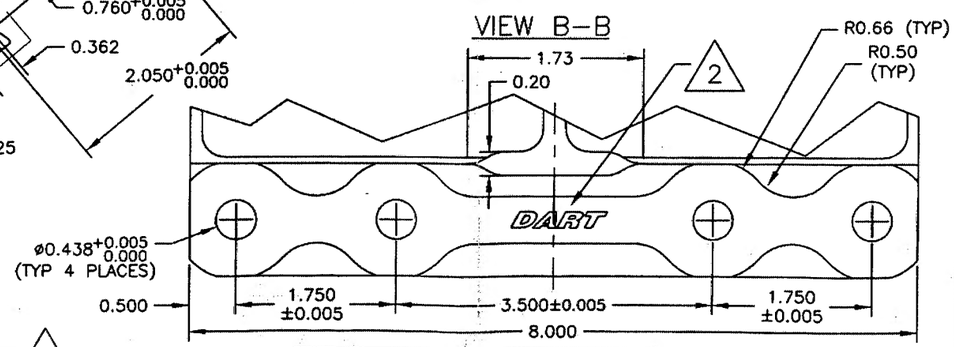




SECTION A–A



DETAIL C
SCALE 4:3



RELEASED
05.12.06

NOTES

MATERIAL: 7075–T7351 (QQ–A–250/12) (REF DART SPEC. D6102–001)
FINISH: ACID ETCH, ALODINE PER DART QSI 005 4.1
POWDER COAT GLOSS WHITE (REF 4.3.5.1) PER DART QSI 005 4.3
BREAK ALL SHARP EDGES 0.010 TO 0.020
TOLERANCES ARE PER DART QSI 018 UNLESS OTHERWISE NOTED

1. ENGRAVE PART AND BATCH NUMBER IN THIS AREA TO MAX DEPTH OF 0.010
2. ENGRAVE DART LOGO TO MAX DEPTH OF 0.015 WITH MIN RAD 0.125
3. CHAMFER 0.063" x 45° AROUND THIS SURFACE (TYPICAL 2 PLACES)
4. CHAMFER 0.063" x 45° ALL AROUND
5. CHAMFER 0.033" x 45° (SEE DETAIL C)

E

SHOP COPY
RETURN TO ENGINEERING
UNCONTROLLED COPY
SUBJECT TO AMENDMENT WITHOUT NOTICE
WORK ORDER NO. 38920

E	05.07.13	ADD CHAMFER ON RIDGE, NOTE 5
D	02.09.06	ADD RIDGES; TIGHTEN TOLERANCES
C	99.10.22	INCORP. DEO 9123/9079/9102 ADD DIMENSIONS PER TSR A1177
B	96.12.02	ADD GRAIN DIR., 0.438 WAS 0.425
A	96.09.16	NEW ISSUE

DESIGN	DS	DRAWN BY	PH
CHECKED		APPROVED	
DATE	05.07.13		

DART AEROSPACE LTD.
HAWKESBURY, ONTARIO, CANADA

DRAWING NO.	REV. E
D2571	SHEET 1 OF 1
TITLE	SCALE
OUTER FWD SADDLE	2:3